CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/965,116 A

Processing Date: 3-29-02
Edited by: M. SPENCER
Verified by: _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____ **ENTERED**

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.   3/1/95

```
        RAW SEQUENCE LISTING                    DATE: 03/29/2002
        PATENT APPLICATION:  US/09/965,116A     TIME: 10:09:34

        Input Set : A:\pto_ms.txt
        Output Set: N:\CRF3\03292002\I965116A.raw

    3 <110> APPLICANT: Kandimalla, Ekambar R.
    4         Zhao, Qiuyan
    5         Yu, Dong
    6         Agrawal, Sudhir
    8 <120> TITLE OF INVENTION: Modulation of Immunostimulatory Activity of
Immunostimulatory
    9         Modified oligodeoxynucleotide phosphorothioate Analogs by
   10         Positional Chemical Changes
   12 <130> FILE REFERENCE: HYZ-479CP (47508.577)
   14 <140> CURRENT APPLICATION NUMBER: US 09/965,116A
C--> 15 <141> CURRENT FILING DATE: 2002-03-08
   17 <150> PRIOR APPLICATION NUMBER: US 09/712,898
   18 <151> PRIOR FILING DATE: 2000-11-15
   20 <150> PRIOR APPLICATION NUMBER: US 60/235,452
   21 <151> PRIOR FILING DATE: 2000-09-26
   23 <150> PRIOR APPLICATION NUMBER: US 60/235,453
   24 <151> PRIOR FILING DATE: 2000-09-26
   26 <160> NUMBER OF SEQ ID NOS: 112
   28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
   30 <210> SEQ ID NO: 1
   31 <211> LENGTH: 18
   32 <212> TYPE: DNA
   33 <213> ORGANISM: Artificial Sequence
   35 <220> FEATURE:
   36 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
   38 <400> SEQUENCE: 1
   39 ctatctgacg ttctctgt                                            18
   41 <210> SEQ ID NO: 2
   42 <211> LENGTH: 18
   43 <212> TYPE: DNA
   44 <213> ORGANISM: Artificial Sequence
   46 <220> FEATURE:
   47 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
W--> 49 <221> NAME/KEY: modified_base
   50 <222> LOCATION: 9
   51 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
W--> 53 <400> 2
   54 ctatctgacg ttctctgt                                            18
   56 <210> SEQ ID NO: 3
   57 <211> LENGTH: 18
   58 <212> TYPE: DNA
   59 <213> ORGANISM: Artificial Sequence
   61 <220> FEATURE:
   62 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
```

```
W--> 64 <221> NAME/KEY: modified_base
     65 <222> LOCATION: 10
     66 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
W--> 68 <400> 3
     69 ctatctgacc ttctctgt                                          18
     71 <210> SEQ ID NO: 4
     72 <211> LENGTH: 18
     73 <212> TYPE: DNA
     74 <213> ORGANISM: Artificial Sequence
     76 <220> FEATURE:
     77 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
W--> 79 <221> NAME/KEY: modified_base
     80 <222> LOCATION: 9
     81 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
W--> 83 <400> 4
     84 ctatctgacg ttctctgt                                          18
     86 <210> SEQ ID NO: 5
     87 <211> LENGTH: 18
     88 <212> TYPE: DNA
     89 <213> ORGANISM: Artificial Sequence
     91 <220> FEATURE:
     92 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
W--> 94 <221> NAME/KEY: modified_base
     95 <222> LOCATION: 10
     96 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
W--> 98 <400> 5
     99 ctatctgacc ttctctgt                                          18
    101 <210> SEQ ID NO: 6
    102 <211> LENGTH: 16
    103 <212> TYPE: DNA
    104 <213> ORGANISM: Artificial Sequence
    106 <220> FEATURE:
    107 <223> OTHER INFORMATION: synthesis of end-blocked CpG-PS modified
oligodeoxynucleotide
    108        phosphorothioate
    110 <400> SEQUENCE: 6
    111 aaggtcgagc gttctc                                            16
    113 <210> SEQ ID NO: 7
    114 <211> LENGTH: 18
    115 <212> TYPE: DNA
    116 <213> ORGANISM: Artificial Sequence
W--> 117 <220> FEATURE:
    118 <223> OTHER INFORMATION: synthesis of end-blocked CpG-PS modified
oligodeoxynucleotide
    119        phosphorothioate
    121 <400> SEQUENCE: 7
    122 atggcgcacg ctgggaga                                          18
    124 <210> SEQ ID NO: 8
    125 <211> LENGTH: 18
    126 <212> TYPE: DNA
    127 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING   DATE: 03/29/2002
PATENT APPLICATION: US/09/965,116A   TIME: 10:09:34

Input Set : **A:\pto_ms.txt**
Output Set: **N:\CRF3\03292002\I965116A.raw**

```
         129 <220> FEATURE:
         130 <223> OTHER INFORMATION: oligodeoxynucleotide phosphorothioate
         132 <400> SEQUENCE: 8
         133 cctactagcg ttctcatc                                              18
         135 <210> SEQ ID NO: 9
         136 <211> LENGTH: 18
         137 <212> TYPE: DNA
         138 <213> ORGANISM: Artificial Sequence
         140 <220> FEATURE:
         141 <223> OTHER INFORMATION: oligodeoxynucleotide phosphorothioate
W--> 143 <221> NAME/KEY: modified_base
         144 <222> LOCATION: 10
         145 <223> OTHER INFORMATION: g = 1',2'-Dideoxyribose
W--> 147 <400> 9
         148 cctactagcg ttctcatc                                              18
         150 <210> SEQ ID NO: 10
         151 <211> LENGTH: 18
         152 <212> TYPE: DNA
         153 <213> ORGANISM: Artificial Sequence
         155 <220> FEATURE:
         156 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 158 <221> NAME/KEY: modified_base
         159 <222> LOCATION: 8
         160 <223> OTHER INFORMATION: g = 1',2'-Dideoxyribose
W--> 162 <400> 10
         163 cctactagcg ttctcatc                                              18
         165 <210> SEQ ID NO: 11
         166 <211> LENGTH: 18
         167 <212> TYPE: DNA
         168 <213> ORGANISM: Artificial Sequence
         170 <220> FEATURE:
         171 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 173 <221> NAME/KEY: modified_base
         174 <222> LOCATION: 7
         175 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
W--> 177 <400> 11
         178 cctactagcg ttctcatc                                              18
         180 <210> SEQ ID NO: 12
         181 <211> LENGTH: 18
         182 <212> TYPE: DNA
         183 <213> ORGANISM: Artificial Sequence
         185 <220> FEATURE:
         186 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 188 <221> NAME/KEY: modified_base
         189 <222> LOCATION: 6
         190 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
W--> 192 <400> 12
         193 cctactagcg ttctcatc                                              18
         195 <210> SEQ ID NO: 13
```

RAW SEQUENCE LISTING   DATE: 03/29/2002
PATENT APPLICATION: US/09/965,116A   TIME: 10:09:34

Input Set : A:\pto_ms.txt
Output Set: N:\CRF3\03292002\I965116A.raw

```
      196 <211> LENGTH: 18
      197 <212> TYPE: DNA
      198 <213> ORGANISM: Artificial Sequence
      200 <220> FEATURE:
      201 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 203 <221> NAME/KEY: modified_base
      204 <222> LOCATION: 5
      205 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
W--> 207 <400> 13
      208 cctactagcg ttctcatc                                              18
      210 <210> SEQ ID NO: 14
      211 <211> LENGTH: 18
      212 <212> TYPE: DNA
      213 <213> ORGANISM: Artificial Sequence
      215 <220> FEATURE:
      216 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 218 <221> NAME/KEY: modified_base
      219 <222> LOCATION: 4
      220 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
W--> 222 <400> 14
      223 cctactagcg ttctcatc                                              18
      225 <210> SEQ ID NO: 15
      226 <211> LENGTH: 18
      227 <212> TYPE: DNA
      228 <213> ORGANISM: Artificial Sequence
      230 <220> FEATURE:
      231 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 232 <221> NAME/KEY: modified_base
      233 <222> LOCATION: 4
      234 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
W--> 236 <400> 15
      237 cctactagcc ttctcatc                                              18
      239 <210> SEQ ID NO: 16
      240 <211> LENGTH: 18
      241 <212> TYPE: DNA
      242 <213> ORGANISM: Artificial Sequence
      244 <220> FEATURE:
      245 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 247 <221> NAME/KEY: modified_base
      248 <222> LOCATION: 11
      249 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
W--> 251 <400> 16
      252 cctactagcg ttctcatc                                              18
      254 <210> SEQ ID NO: 17
      255 <211> LENGTH: 18
      256 <212> TYPE: DNA
      257 <213> ORGANISM: Artificial Sequence
      259 <220> FEATURE:
      260 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002
TIME: 10:09:34

Input Set : **A:\pto_ms.txt**
Output Set: **N:\CRF3\03292002\I965116A.raw**

```
W--> 262 <221> NAME/KEY: modified_base
     263 <222> LOCATION: 12
     264 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
W--> 266 <400> 17
     267 cctactagcg ttctcatc                                              18
     269 <210> SEQ ID NO: 18
     270 <211> LENGTH: 18
     271 <212> TYPE: DNA
     272 <213> ORGANISM: Artificial Sequence
     274 <220> FEATURE:
     275 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 277 <221> NAME/KEY: modified_base
     278 <222> LOCATION: 13
     279 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
W--> 281 <400> 18
     282 cctactagcg ttctcatc                                              18
     284 <210> SEQ ID NO: 19
     285 <211> LENGTH: 18
     286 <212> TYPE: DNA
     287 <213> ORGANISM: Artificial Sequence
     289 <220> FEATURE:
     290 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 292 <221> NAME/KEY: modified_base
     293 <222> LOCATION: 14
     294 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
W--> 296 <400> 19
     297 cctactagcg ttctcatc                                              18
     299 <210> SEQ ID NO: 20
     300 <211> LENGTH: 18
     301 <212> TYPE: DNA
     302 <213> ORGANISM: Artificial Sequence
     304 <220> FEATURE:
     305 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 307 <221> NAME/KEY: modified_base
     308 <222> LOCATION: 4, 5
     309 <223> OTHER INFORMATION: ac = 1',2'-Dideoxyribose
W--> 311 <400> 20
     312 cctactagcg ttctcatc                                              18
     314 <210> SEQ ID NO: 21
     315 <211> LENGTH: 18
     316 <212> TYPE: DNA
     317 <213> ORGANISM: Artificial Sequence
     319 <220> FEATURE:
     320 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 322 <221> NAME/KEY: modified_base
     323 <222> LOCATION: 1, 2
     324 <223> OTHER INFORMATION: cc = 1',2'-Dideoxyribose
W--> 326 <400> 21
     327 cctactagcg ttctcatc                                              18
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002
TIME: 10:09:35

Input Set : **A:\pto_ms.txt**
Output Set: **N:\CRF3\03292002\I965116A.raw**

```
L:15  M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:49  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:53  M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:64  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:68  M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:79  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:83  M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:94  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:98  M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:117 M:283 W: Missing Blank Line separator, <220> field identifier
L:143 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:147 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9
L:158 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:162 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10
L:173 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:177 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11
L:188 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:192 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12
L:203 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:207 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13
L:218 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:222 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:232 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:236 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15
L:247 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:251 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:16
L:262 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:266 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:17
L:277 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:281 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:18
L:292 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:296 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:19
L:307 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:311 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:20
L:322 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:326 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21
L:337 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:341 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:22
L:352 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:357 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:23
L:368 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:372 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:24
L:383 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:387 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:25
L:398 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:402 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:26
L:413 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:418 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:27
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002
TIME: 10:09:35

Input Set : **A:\pto_ms.txt**
Output Set: **N:\CRF3\03292002\I965116A.raw**

```
L:429 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:433 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:28
L:444 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:448 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29
L:459 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:463 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:30
L:474 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:479 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:31
L:490 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:494 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:32
L:505 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:509 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:33
L:520 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:524 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:34
L:535 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:539 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35
L:550 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:554 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:36
L:565 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:569 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:37
L:580 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:584 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:38
L:595 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:599 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:39
L:610 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:614 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:40
L:625 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:629 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:41
L:639 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:643 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:42
L:654 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:658 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:43
L:669 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:673 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:44
L:684 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:688 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:45
L:699 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:703 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:46
L:714 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:718 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:47
L:729 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:733 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:48
L:744 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:748 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:49
L:759 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:763 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:50
L:774 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:778 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:51
L:789 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002
TIME: 10:09:35

Input Set : **A:\pto_ms.txt**
Output Set: **N:\CRF3\03292002\I965116A.raw**

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L:793  M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:52
L:804  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:808  M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:53
L:819  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:823  M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:54
L:973  M:283 W: Missing Blank Line separator, <400> field identifier
L:1600 M:283 W: Missing Blank Line separator, <400> field identifier
```

OIPE

RAW SEQUENCE LISTING   DATE: 03/26/2002
PATENT APPLICATION: US/09/965,116A   TIME: 16:24:51

Input Set : A:\47508-577.ST25.txt
Output Set: N:\CRF3\03262002\I965116A.raw

```
   3 <110> APPLICANT: Kandimalla, Ekambar R.
   4        Zhao, Qiuyan
   5        Yu, Dong
   6        Agrawal, Sudhir
   8 <120> TITLE OF INVENTION: Modulation of Immunostimulatory Activity of
Immunostimulatory
   9        Modified oligodeoxynucleotide phosphorothioate Analogs by
  10        Positional Chemical Changes
  12 <130> FILE REFERENCE: HYZ-479CP (47508.577)
  14 <140> CURRENT APPLICATION NUMBER: US 09/965,116A
C--> 15 <141> CURRENT FILING DATE: 2002-03-08
  17 <150> PRIOR APPLICATION NUMBER: US 09/712,898
  18 <151> PRIOR FILING DATE: 2000-11-15
  20 <150> PRIOR APPLICATION NUMBER: US 60/235,452
  21 <151> PRIOR FILING DATE: 2000-09-26
  23 <150> PRIOR APPLICATION NUMBER: US 60/235,453
  24 <151> PRIOR FILING DATE: 2000-09-26
  26 <160> NUMBER OF SEQ ID NOS: 112
  28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

ERRORED SEQUENCES

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1678 <210> SEQ ID NO: 112
1679 <211> LENGTH: 18
1680 <212> TYPE: DNA
1681 <213> ORGANISM: Artificial Sequence
1683 <220> FEATURE:
1684 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
1686 <221> NAME/KEY: modified_base
1687 <222> LOCATION: 13
1688 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
1690 <400> SEQUENCE: 112
1691 ctatctgacg ttctctgt                                    18
E--> 1693  hyZ-479cP(47508-577).st25
E--> 1699  Page 1
```

remove extra material at
end of file

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/965,116A

DATE: 03/26/2002
TIME: 16:24:53

Input Set : A:\47508-577.ST25.txt
Output Set: N:\CRF3\03262002\I965116A.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:117 M:283 W: Missing Blank Line separator, <220> field identifier
L:973 M:283 W: Missing Blank Line separator, <400> field identifier
L:1600 M:283 W: Missing Blank Line separator, <400> field identifier
L:1693 M:254 E: No. of Bases conflict, LENGTH:Input:25 Counted:30 SEQ:112
L:1693 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:18
L:1693 M:112 C: (48) String data converted to lower case,
M:254 Repeated in SeqNo=112
L:1699 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1699 M:252 E: No. of Seq. differs, <211>LENGTH:Input:18 Found:34 SEQ:112